Amendments to the Specification:

Please amend the section starting at page 8 line 30 (just after Equation (1)) and extending onto page 9 to read as follows:

where R is the viewing radius R shown in FIGURE 1, W_z is the detector-width slatt height W_z shown in FIGURE 2, and a smaller value for the ratio R/ W_z corresponds to increased or better imaging resolution. If, for example, a conformal non-circular detector orbit provides a certain imaging resolution at an average viewing radius of 20 cm, then to move to a constant circular detector orbit with a viewing radius of 30 cm (which is sufficient to admit most human subjects in a prone position) without degrading resolution, the height W_z of the collimator slats 74 should be increased by a factor of (30 cm \div 20 cm) or 1.5 to provide the same resolution at 30 cm fixed-radius orbit as is obtained using a conformal non-circular orbit with an average radius of 20 cm. Rather than increasing the slat height W_z , the slat separation G can instead be decreased to provide the increased collimation at constant radius of 30 cm.